

App. F. IX-4

Previous References

1934. 5
(- Geol.)

Preserve

File No. 36-34

Serial Nos. 1-12

Later References.

Geol 25-35 (1-4)

" 91-36 (1, 3+4)

" 36-36 (4-6)

" 60-37. (1-5)

✓ F (51)

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. two lines

Part B for

SUBJECT.

Ingestion regarding the future scope
of work of the Mysore Geological
Department

D 8-10 20. 7. 34

iv

Dr of Geol
Compt & Genl
this fin sect
Secy. CRB

WD 01965-GPB-15,000-7-7-34

Functions the appointment of
a low salary fieldman on Rs 75 pm

Geol 36-36-1

MYSORE GEOLOGICAL DEPARTMENT

Bangalore, 5th September 1934.

D. No. G. 313/Sec. 1

1154
GEN. & V. SECRETARIAT

Dear Sir,

As desired by you, I forward herewith
a note written by Mr. B. Rama Rao, Assistant
Geologist, on the future work of this Department.
This note was given to me at the end of January
1934 by Mr. Rama Rao after his return from depu-
tation in Europe & America. As the suggested
scheme of work appeared to me very elaborate and
ambitious, I did not forward it to you. Owing
to financial strain, any fresh development
involving extra expenditure could not be recommen-
ded.

There are many points in the scheme which
have already been suggested before by previous
Directors; but as they involved extra expenditure,
no action could be taken.

In addition to the present activities of
the department, if for the development of the

p.t.o.

1
Sec Secy
with complete
I should
like to see
this note with
in Secy in
Rama Rao
note -
11/5/34
6/9
2/11/34
3
Issue to
to the Director

Secy
7/9/34

the mineral industry further work has to be done under the headings of hydrographic and soil survey, Survey of Building and Ornamental stones, detailed prospecting and mining, as noted in the scheme, additional recurring expenditure has to be incurred. If it is so desired by Government, a special scheme will be drawn up with an estimate of cost to meet the immediate needs on the lines drawn up by Mr. Rama Rao.

Yours sincerely,



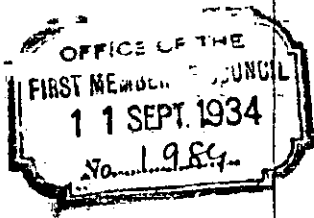
Rajamantrapravina

Diwan Bahadur K. Matthan, Esq., B.A.,

First Member of Council,

B a n g a l o r e.

Serial
No.



NOTE - CONTINUED
5 SEP. 1934
DEVELOPMENT BRANCH

James No D 1700 Dated 7/9/34.
4 Subd. ~~Specimen~~ This ~~will~~ ^{may} be ~~sent~~ ^{sent} to the
1st member. When ref to his order dated 6/8/34
above. Will be sent to the P.A. to First Member
of each c.c. if appro
7/9/34 36 5 years 8/9/34
To P.A. to 1st of low side)
with compliments to
36 WD 01955-GPB-22,500-12-6-34
to become with our lens in Namur.
Perfect that our lens will send up certain
recipe papers short
11/5 NW 11-9

From the use of Biology

No. of 432 dated 29/8/34 -

Request - order for ~~sanction~~ ^{entitlement} his be ~~additional hands~~ ^{as ~~dict~~} ~~sanction~~ ^{sanction} on Rs 75/- a month for a period of 2 years in the first instance to ~~cope with the additional~~ ^{cope with the additional} ~~work~~ ^{work} for effect to the important economic investigations which require immediate attention, and for granting an additional sum of Rs 300/- ~~for~~ ^{for} under ~~monthly~~ ^{monthly} survey in the current year's budget -

I Subd under ref to the members minute dated 4/9/34 (Para 6) above

Important economic investigations to be undertaken by the department are -

1, Development of ornamental building stone industry

2, Stoneware and Ceramic industries

3 To cope with these additional work, the ~~govt~~ ^{state} ~~wants~~ ^{has} ~~two~~ ^{three} ~~hands~~ ^{hands} ~~more~~ ^{are necessary} hands of the progress to ~~entertain~~ ^{entertain} two ~~qualified~~ ^{qualified} ~~graduates~~ ^{graduates} in Biology & Field Assistant on Rs 75/- p.m. temporarily for a period of 2 years in the first instance. He also ~~wants~~ ^{wants} in this connection a sum of Rs 300/- in addition to the sanctioned grant of Rs 200/- for

1157 (3)

Serial
No.

2189

Mineral survey in the current year
budget - ~~some~~ ^{but} by has to be consulted
if two ~~two~~ ^{additional} hands ^{are proposed}
to be sanctioned.

H. C. B. Sec. Secy)
57/934

9 Aug
6/10/34

10 The work suggested has been
undertaken even in the interest of improving the
revenue from the dept. In the normal course a
portion of the expenditure is covered by receipts
from the sale of the material won. The additional
expenditure is about 5000 a year including the
pay of the two additional field assistants maybe
about 1000. The additional amount required for
this year can be met from the ~~additional~~ ^{revenue}
under chrome mining which can be confidently
expected to be more than the present budget
estimate.

For the Secy
H. C. B.

" W.
11.10.34
ag.

12 The proposal is to sanction the entertainment of
two more officers on Rs 75/- per mensem on a temporary
basis for a period of two years, and also an extra ex-
penditure of Rs 3,000 per annum for Mineral survey work.
There is no provision for the purpose in the current
year's budget and the Budget position does not permit

761
12/10/34

174

Geo File No

36

of 1934

General and Revenue
Secretariat

the sanctioning of additional grants. Under the Economy order such new proposals have to be put off.

13. The suggestion of the Development Secretary to meet the expenditure from the extra receipts anticipated from the Chrome Mines is not acceptable since the appropriation of receipts for expenditure is not permissible as per rules. Any extra receipts realised and savings in expenditure ~~xxxxxxpermissiblexxxx~~ have to go to reduce the deficit in the Revenue Account, which is likely to occur, and cannot be made available for new items of expenditure of a deferrable character.

14. The work has to be got done by the existing staff by giving preference to more important items of work and postponing less urgent items of work. The proposal is therefore not financially acceptable.

31/10

15. ~~Further~~

15-11-34

16. The work cannot be done by the present reduced staff.

17. Please get the details of the extra cost of extra 7 B 3000, (at Rs 5000?)

2/11/34

19

18. Draft

Subs. with a draft for approval

2/11/34

20. Issue

2/11/34

3/11

761

unless some money is spent for development work the revenue account will be in deficit



1657

57

Serial
No.

3

To. The Director of Geology
No. 3102 of 9.11.34
Request to furnish the details for
an allotment of Rs. 5000/- for Mineral
Survey

From the Dir. of Geology

No 9042-1 dated 14/4/34.

Furnishes the details for Rs 5000/- called
for in serial 3 above

21 Subd inquiry to the members of Council
dated 2/4/34 (Para 17 above).

22 The Council has ~~estimated~~ furnished details
for an allotment of Rs 5000/-
out of this, Rs 3030/- is ^{to be} required for carrying on the
investigation in two areas referred to ^{during} the
next six months

20/4/34. (1st member)

21/11/34

23 Please note for 1932-33, 1933-34
1934-35 (forecast) — the budget
& actual (or probable) realisations
under rev from Chrome mines some
of the rev will have been utilized for
development

21/11
22.11

Secy. B. for
Geology
REV. SECRETARIAT
1574/1934-35
ENVELOPMENT

OFFICE OF THE
FIRST MEMBER COUNCIL
20/4/34
No. 6019

25-

Subd with ref to the members minute
dated 21/11/34. v.iii Mining Revenue. 5- Profits on working change
year. Revised Estimate Budget Estimate
Actual

1932-33	56,240 (Accounts)	30,000
1933-34	40,000 (Revised)	30,500
1934-35		40,000

26 necessary As records the ^{actual} revenue for 1933-34
& probable for 1934-35. the file may
perhaps, be referred to the Comptroller
for information

Sd/- K.D.

27 Forwarded with compliments to the Comptroller
to Govt for favour of furnishing the details
required
24/11/34.

Deenabaiyappa

For Secy. to Govt.

B.I. & Books. 2.0. No. 229/spl
Returned with compliments.

28 The profits for the year 1933-34 adjusted pro-
visionally in the accounts of the year, pending audit of
the Balance Sheet for the year which is still awaited
from the Superintendent, amount to Rs. 65,186-13-9.

This office is not in a position to forecast
the figure for 1934-35. It has to be ascertained
from the Geological Department as per actual anticipations

No. 1057/1934 31.7



u.o. 413 2.1.34.

of 30.11.34.

Lgeo

M.W.
3.12.34

Serial
No.

of the sale rate and the quantity expected to be
sold during the remaining months of the year.

SECRÉTARIAT
* 3 DEC 1934
VELOPMENT BRANCH.



A. D. L. L.

Comptroller.

30/1/34

30

Subd mem a dngt- to the Dir. of geol for
approval

8/12/34

31 Issue
24/12/34

5.

To The Director of Geology

No D. 3750 of 6.12.34.

Tables for particulars of actual realisations
under Revenue from Chrome Mines during 33-34
& 34-35.

6

From the Dir. of geology

No 9.79.2 dated 10/12/34

Furnishes the information called for in
Serial 5 above

32

Subd Ref. the memo & minute dated 21/11/34.
(Para 24 above)

33 The budget & actual (or probable) realisations
under ^{via} Revenue mining revenue & profits in
working chrome mines, are as follows

Year	Revised Estimates actuals	Budget- Estimates
1932-33	M-56,240 (revised)	30,000
1933-34	65,187-13-9. (subject to correction).	34,500
1934-35	M 1,26,175-0-0 (Probable)	40,000

sub B for
a week
8/12/34

(8)

2317
2424

File No.

of 193

General and Revenue
Secretariat.

the additional sum required for
mineral survey work during 1934-35-

Rs 3000/- The actual re-entraining work

for ~~mineral survey~~ Rev from chrome mines
to the end of Nov 1934 was Rs 67,550-0-0.

34 Reference - Para 24.

Dev. Secy)

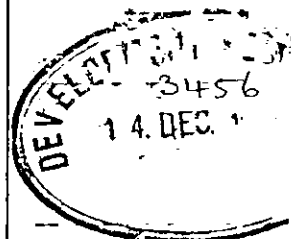
Dec
73/12/34

35 During the current year, the net
revenue is expected to be Rs 1.20 lakhs
against 60 lakhs anticipated in the budget.

36 There is considerable doubt
entertained about the quantity of high grade
ore available and some development work
is also necessary.

37 In order to maintain the
revenue, some experimental work will have
to be undertaken to concentrate poorer
grades or prepare ferrochrome. The
experiments so far conducted have not
led to any useful results as they were
on laboratory scale. We have to work
a small plant and about 50,000 Rs
would be required for this.

38 -- Recently Mr. Sambasiva
Iyer has sent the Dewar certain
suggestions regarding a Mineral Survey



3770
Feb 62-34

2849
GeoSerial
No.

of the State or at any rate a few select areas which look prima facie promising. The Director has been requested to Commemorate his views. Anyway it is time some such work was undertaken even purely from the financial point of view.

39. I would therefore suggest that only Rs 75,000 be taken to the current revenue account and the balance formed into a fund which will be available for investigation and development as in the Soap Factory & Creosoting plant. Further thinking
(Thru H. Seny)

MW.
16-12-34
my

40

The suggestion of the Development

8
15/11/35.

Secretary is that out of the net receipts from Chrome Mines during the current year, only Rs 75,000/- be taken to the Revenue account ~~of~~ and the balance, about Rs 51,000, may be credited to a fund head for being made available for investigation and development work as is done in the case of Soap Factory and Creosoting plant. The transfer of any portion of revenue to a fund head is against the first principle of the account code that departmental revenue cannot be earmarked for departmental expenditure and is not permissible. Further it will be.

H. 1223
15/12/34
M. MW.

feasible only when the Revenue Account ^{7 1/2 for} shows a surplus, i.e., when the total revenue is more than the total expenditure chargeable to the Revenue Account. The transactions during the last ten years resulted in a deficit and the deficits during some years were being covered by drawings from the Reserves. The contribution to the Soap Factory Reserve is not being made in view of the present financial position and the question of discontinuance of the procedure of making contributions to the Creosoting Plant Reserve is under consideration.

4/ Against a Balanced Budget during the current year, the actuals are likely to result in a deficit of about Rs. ¹⁵~~10~~ lakhs. We have not been able to allot from the Revenue Account the contribution of Rs 5 lakhs to the Special Reserves recommended by the Retrenchment Committee. Unless our Revenue account shows a surplus, after the withdrawal of all the economy measures like the Salary Cut, and after making the prescribed contributions to the Reserve Funds recommended by the Retrenchment committee, it is not possible to transfer any portion of the Revenue to a new Fund Head.

4/ The absence of a fund balance need not by itself stand in the way of incurring expenditure which is considered absolutely necessary immediately nor can its existence justify expenditure not of this character but is avoidable or deferable. The same financial principles and procedure will have to be applied for expenditure from a Reserve Fund as for expenditure from Revenue The

Serial
No.

The proposal to create a fund is financially not acceptable.

43 The entire profit has to be credited to Revenue and any expenditure that may be considered necessary met out of the ^{grant on the} expenditure side of the Budget in accordance with the usual rules and procedure (i.e., by reappropriation of funds or extra grant.).

As
23.1.35

S
24.1.35.

44 Refer to the minutes para 24.

First Member

MM
25.1.35.

44

I should like to discuss this with the Sir & the Secy.

(The argumental Stone is however is being handled by Mr. Mani Venkatarappa)

by
28.1.35

MM
28.1.35.

45 *draft*

by
28.1.35

46

Subd with a draft —. The draft & copy to be filed

file
25/11

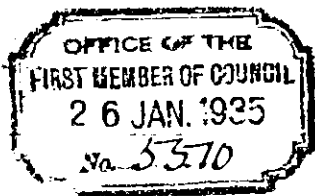
49 Issue

by
30/1/35

50

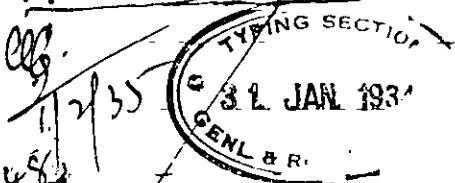
Forwarded to J 4203 / d 2/4/35 —
Remtd with ref to para 4.4 above
Mr. Sen has been asked to see the

781223

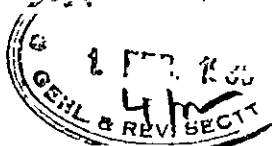


Subd 47

The First Member will see Mr. Sen on Monday the 4th instant at 2:30 P.M.



Subsequently changed to 6 P.M. 4 P.M.
Note—Contn. Sheet.



member ~~at~~ at 4 P.M. on the 6th inst.

51

1st Member,

Secy

4/2/35

52 The question was further discussed by the 1st Member with the Director of Zoology and it was decided that the question of fund need not be pressed now.

53 The allotment like before has been severely cut down that it is not possible by staff of the Institute to take up new development work for the time being. The staff is also kept busy with the normal work. In order to undertake development work on a small scale the staff of the Institute with a total allotment of Rs 5000 a year may be sent.

54 The expenditure during the current year will be about 12000.

55 It is likely that a good bit of this amount will be got back as increased revenue for results.

For Secy
member

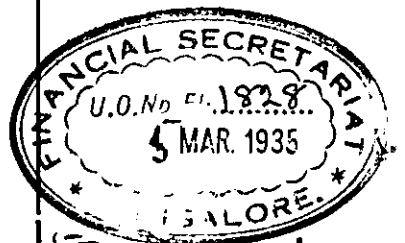
56

Specific proposals and grant therefor may be

considered with next year's Budget.

8/3/35

9.3.35



57 I shall discuss this with the Secy

9.2.35

✓
2849
457

General and Revenue
Secretariat

Geo File No. 36

[App. F. III-22]
of 1934-5

Serial
No.

58

The director may be requested to
submit specific proposals
immediately

WV
16.3

59 Draft
see
16/3/35

60

Subd with a draft for approval

60
16/3

61 Issue

see
16/3/35



To the Director of Geology

No D6124 d 18.3.35;

ables for specific proposals very early

8

From the Dir of Geology

no 2062-4 d 26/3/35

Submits the various proposals called

for

62 Subd with rep. to para 58 above

The Dir proposes to undertake the following

two lines of activities -

1) Ornamental Building Stone works

& 2) Ceramic & stoneware works

In the above works be two ^{additional} (field) obs-on

to 757 - each p. n. are said to be necessary

necessary

63 (63) Sec. Secy

see
29/3/35

25/3

WD 01955-GPR-22,500-12-6-34

As a remedial scheme for

Brasília, many new

in negotiating with foreign and

File No.

45-10
Geo

of 193

General and Revenue
Secretariat

The staff member sent
for the
there is

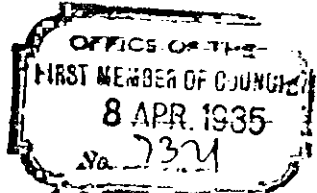
(65) The proposal involves an extra expenditure of about Rs 5,000/- The next year's Budget is likely to show a large deficit even without taking into account new items of expenditure, and all possible steps are required to be taken in order to present a Balanced Budget. There does not appear to be any scope for providing funds for new items of expenditure. The question may however be reserved for consideration at the final Budget time.

MW.
90-2

2

8

3/4/35



Sec. Secy to Govt. Spent to me
64
9/4

MW.
6/4

8
6/4/35

MW.

8.4.

2

(67) The file regarding Mr. Sambasiva Iyer's suggestion is linked to this.

(68) Mr. Sambasiva Iyer's Note with the remarks furnished therein by the Director as also the detailed note by Mr. Rama Rao indicate the great need for a systematic investigation of the mineral resources of the State in the light of the latest knowledge and development of industries.

(69) As they have all pointed out, very little has been done survey and development work by the Department since

377

Serial
No.

since 1922 when the establishment was severely cut down. There was systematic work and fairly good progress was maintained till then. Since then, new methods have developed and the industrial value of the minerals undergone considerable change. Deposits which might then have been considered of comparatively poor value might be of very great importance to-day.

(70) It seems therefore desirable that the outline of work suggested by Mr. Rama Rao should be kept in view and work started on however small a scale to suit this programme.

(71) The Director has not taken very kindly to the suggestions made by Mr. Sambasiva Iyer, but even his remarks indicate that systematic prospecting of the State in the light of the latest developments and with the aid of modern appliances is likely to yield good results. In fact this work seems practically overdue.

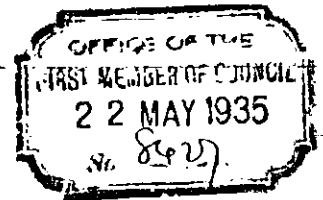
(72) Work of this character has been stopped on account of retrenchment, but whatever the justification at the time, it does not seem to be correct now. In all probability, development and prospecting work undertaken on a systematic scale, will lead to new industries being established or in any case the money spent will more than be realised.

(73) Recently in connection with the next year's Budget, sanction has been accorded for the minimum additional staff and any grant required for modern appliances can be sanctioned without affecting the budget next year. In all probability, the revenue from chrome will be better than the amount provided by about Rs.40,000/- and at least 10,000 ^{Ra} to Rs.15,000 can be provided for additional expenditure.

(74) In the meanwhile, the Director may be asked to take up the item of work indicated by him as also such items suggested by Mr. Sambasiva Iyer in regard to the need for the further investigation of which the Director agrees with him.

Further
Dewan)

Mr
22.5.35
dy



75 A sum of Rs 880 has been included in the budget. What are the details of it please?

by
23/5

76 Subd with a draft for approval

Sub
24.5.35

77 Issue
25/5/35



9

To, the Secy of Geology

no D 7687 dated 28/5/35

State that a sum of Rs 2800/- has been provided under Mineral Survey in the budget for 1935-36 and request that the details for the above allotment may be furnished

10

From the Secy of Geology

no 9042-6 dated 1/6/35

Request to be informed if the above sum of Rs 2800/- is in addition to the pay and T A of the two additional temporary field Assistants separately provided for and also whether it is in addition to the usual ^{sum of} Rs 2000/- ordinarily provided under Mineral Survey

11

From the Secy of Geology

no 9042-7 dated 7/6/35

State that in order to enable the department to carry out satisfactorily the special programme of work under Mineral Survey it is necessary that an additional allotment of at least Rs 2000/- should be made so that the total grant under Mineral Survey may be raised to Rs 7000/- and request that the above provision may be made

Subd with reference to the membership Memo dated 23/5/35 (Para 75- above)

A sum of Rs 5000/- has been provided under Mineral Survey ^{provisional} - its budget for 1935-36. This sum includes ~~Rs 2880/-~~ Rs 2880/- which has been specially provided for to carry out the special programme of work under Mineral Survey as detailed in ^{the Govt's} letter dated 26/3/35. We are considering that this has furnished details for Rs 3000/- but he considers that this sum is not sufficient ~~for the special work~~ under Mineral Survey. He wants an additional grant of at least Rs 2000/- under Mineral Survey. In this case the total grant will be Rs 7000/- against Rs 5000/- now provided for in the provisional budget. ~~Place for consideration.~~ ^{we} ~~whether it is possible to provide an~~ ^{additional sum of Rs 2000/-} ~~or not~~ Copies of the provisional budget have been printed and issued. Whether it will ~~be~~ ^{be possible to} provide an additional sum of Rs 2000/- is for consideration. We feel say may be considered in the budget.

Subd for order

1076/35-

Dev. Secy)

1076/35-

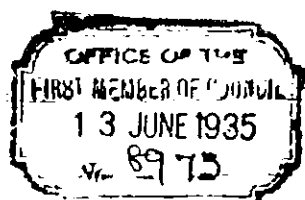
For reference to Members of Council
Para 75 The allotment is sufficient for about 6 months work when an additional grant can be made if the work done in the meanwhile justifies it.
For the Secretary

M.V.
12.6.35

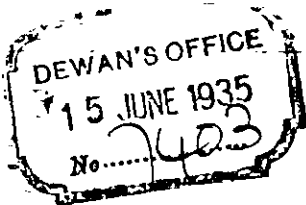
S

- 7285
11/6/35

we ^{not} to provide an additional sum of Rs 2000/- is for consideration. We feel say may be considered in the budget.



5770 ✓



The appointment of 2 temps for 12 months maybe
land - let the work be carried
out as far as respecting 2 items
indicated in the D.O. bearing 26-3-35
- Granting the request for
from the local agent

by
13/6

Dewan

W.
18.6.
20/6

Mo
15-6-35

by
15/6

W.
15.6.

draft
22/6/35

Subd into a draft of a for approval

80
26/6/35

Issue
27/6/35

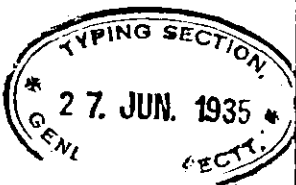
Draft - and later here

217

For perusal
217/35
2/7

Issue
317/35

Issued
3/7



Received

5770

File No.

of 193

General and Revenue
Secretariat

Issued G.O. No D8-10/Genl 36-34-12.
d 3rd July 35 sanctioning the temporary apptt of
2 tempy field Asstts for General Duty work.

Rel'd 15 Dec 1935

16/7
21/31/7

8
-REV. SECRETARY
16/7-
10 JULY 1935

DEVELOPMENT BRANCH
-Note file
10-D 912320
21

Suggestions regarding future scope of work
of the Mysore Geological Department.

It is nearly 40 years since the Geological Department was started with a view to conduct a geological survey of the State, to locate its noticeable mineral deposits and also to carry on a systematic inspection of the mines on the Kolar Gold Field. Inspection of Explosives formed part of the work and the department had also its own Secretariat.

After the first few years given to the needed training of the selected staff, the regular operations of the Geological survey was commenced about 1900, and in the course of some 15 years, excepting some inaccessible portions of the western ghats, a preliminary survey of a major portion of the State had been accomplished, sufficient to give one a general idea of the essential structure of the country. During this time most of the important mineral deposits of the State, viz., manganese and chrome ores, iron ores, limestones, magnesite and asbestos had been located. The results of work done so far were made available to the public in consolidated form in the following publications:-

A Brief Summary of the Geological History of Mysore
(Special Bull. No.6).

Geological Map of Mysore (8 inches to a mile).

Mineral Map of Mysore.

Mineral resources of Mysore. (Special Bull. No.7).

To co-ordinate the results of the survey work done so far serious differences of opinion still existed regarding the interpretation and correlation of some chief rock formations and therefore to arrive at a satisfactory basis for a uniform representation in mapping a re-examination of certain areas became a matter of absolute necessity.

In 1915, the Department underwent a re-organisation

✓

one of the effects of which was that it ceased to function as a separate secretariat. In sanctioning this re-organisation Government desired that greater attention should be paid by the Geological Section towards investigation of problems pertaining to the economic mineral resources of the country. As a result of this, investigations were set on foot to test the suitability of iron ores and limestones for iron smelting; the possibility of manufacturing washing soda from the lixiviation of alkaline earths etc. and vigorous prospecting was carried out to determine the extent of some of the mineral deposits like graphite, corundum, kankar and clay. Most of the available staff had to be drafted on to these works leaving but one or two among the experienced officers for purposes of revision survey. As a result of re-examining some selected areas, and in the light of their own previous experiences they made an attempt to recast the existing maps of the whole state, the result of which has been far from satisfactory.

In the re-organisation scheme of 1919, the work of inspection of mines and explosives, till then carried on under the control of this Department was taken away from it. In 1922, owing to retrenchments the department had to suffer a further serious loss in its cadre and consequently its sphere of activities had to be curtailed to the lowest limits. From this time to 1927, with the limited staff available further economic investigations had to be at a standstill and all that could be done was to critically examine in the light of the results of modern researches, some of the areas of controversial nature. This work has revealed a good many problems of high petrological interest which require closer investigation. Owing to inadequate facilities the work done so far along those lines has been more of a suggestive nature than any solid contribution to the advancement of petrology.

In 1927 without any appreciable addition to the then existing cadre of assistants, the department was again directed to bestow more of its attention to investigations of economic

aspect. This resulted in the working of some chrome mines under the departmental agency; large scale prospecting for copper and lead ores and opening out or supplying the raw mineral products - Magnesite, ^Kolⁱn, Felspar, Quartz and Graphite. Of late there has been constant requisitions for the supply of kaolin felspar and quartz from the Porcelain Factory and for graphite from the Mysore Iron Works, and to meet these demands much of the available time of the limited staff of the department is being taken away.

The Department has not recovered the heavy loss it sustained in the strength of its staff, during the retrenchment of 1922. Owing to the very limited number of assistants on its roll, it has not been possible either to expand the activities of the Department to diverse branches of usefulness to the public, or to allocate any definite charges on different lines of investigations to individual officers so as to give them time and opportunities to specialise and do their utmost in their respective spheres of work.

Scope of Future Work.

Properly organised and given the requisite facilities the Department could expand its activities in various directions and the useful investigations it could carry out are many. To suit the immediate needs, the following lines of work at least might be taken on hand and the programme of work as briefly indicated is ambitious enough for the present to produce some tangible results.

1. Geological Survey Section:-

- (a) Separation and specific determination of minerals - Amphiboles, Pyroxenes, Garnets Cordierites &c.
- (b) Petrogenetic problems - embracing investigations on the diversity of rock types - "Charnockites - Closepet granite complex - Some of the members of the Champion gneiss ... &c.

- (d) Critical re-examination of the limestones, iron ore rocks, Sillimanite - Graphite schists and some pyroxene granulites - with special reference to their mode of origin.
- (d) (b) and (c) involve the re-mapping on larger scales of certain specific areas. In the light of the results arrived at, the existing geological map has to be completely revised.
- (e) Detailed survey on a scale of 6 or 8 inches to a mile of mineral bearing areas to bring out clearly the structural relations and the ore bearing horizons. Work of this nature has been done in some areas, but needs greater accuracy.

Among these some investigations have been done under (b) and (c), but as I have already stated they are more of a suggestive nature than any conclusive contributions, ~~publications~~
Publications.

- (1) Separate bulletins on the results of researches in a, b, and c.
- (2) Memoirs on the Geology and mineral resources of each district.
- (3) Manual on the geology of Mysore.
- (4) Bulletins embodying up-to-date general and special information on chromite, magnesite, sillimanite, garnet and graphite.

11. Economic Geology Section:-

- (a) Hydrographic Survey: Questions bearing on the water supply of some areas have been investigated now and then, and a bulletin was published as early as 1911 on the underground water resources of the State. But comprehensive data extending over the whole State has not been collected. There is vast scope for further investigations on this line.

- (b) Soil Survey: There is at present very little information on the nature of soils of the State. Small scale soil survey maps are matters of necessity specially so in areas likely to come under prospective irrigation schemes. Large scale survey such as the one recently carried on for the lands under the Irwin Canal tract would be very costly, but preliminary surveys of the kind stated are not likely to be very expensive.

In some parts of the State lands have fallen into waste due to soil erosion, rise of alkalies or other natural causes. By a careful study of the nature of rock formations and soils in such places it might be possible to devise ways and means for the reclamation of such lands. This aspect of the problem has not been studied hitherto.

- (2) (c) Building and Ornamental Stones: The licensing, quarrying and marketing of these are not under the control of this department, consequently apart from the question of locating the outcrops, the department hardly knows anything about them. In the interests of the department, it is better to have those under its control. Mysore is rich in porphyry dykes of various types of handsome appearance. They have not been used extensively. A special section is needed to study the most economical method of quarrying them - to turn them out into ornamental stones ware &c. ^{and} to create markets for such locally & outside

- (d) Prospecting:- The present system of opening out an ore body by some shallow cross trenches does not give much information on the extent of its deposits. Geophysical method of prospecting is coming to ^{vogue} ~~vogue~~ in foreign lands. But in its present state of development especially in the matter of location of

of the

of the metalliferous deposits - the results need verification by actual boring. Geophysical methods, especially the electrical, may have to be taken up later on but for the present it is better to test the extent by actual bore holes by diamond drilling. For purposes of investigation of our mineral deposits they have to be divided at least into 2 sections.

- (e) Ore Concentration:- The possibility of concentrating low grade chrome and manganese ores are being tested by private agencies. The department must be equipped to carry on investigations on concentration of ores. Sillimanite, graphite, kyanite, garnet and a host of other minerals as distributed in the rock formations cannot be profitably worked. Some of these may be easily amenable for concentration and profitable exploitation.
- (f) Investigations on the utility of the raw mineral products of Mysore:-
- (1) Detailed study of the physical and chemical properties of various clays and their grading into different classes. Testing of their suitability for different ceramic industries, refractories and for cements.
- (2) The possibility of utilising chromite, sillimanite, bauxite and magnesite as refractories
- (3) Possibility of utilising limestones for cement, hydraulic limes and for ornamental purposes.
- (4) Possibility of utilising the short fibred asbestos for asbestos cement etc.

(g) Mining and Marketing: At present the only mineral which is being mined and marketed by the Department is Chromite. If ^{any} ~~an~~ ~~or~~ ~~at~~ the investigations under (f) turn out successful the activities of this branch will increase considerably.

111. Chemical Laboratory: (a) As at present the analysis of ores, rocks and minerals has to be carried on. But to cope with the scope of work detailed under 1 a. (b) and (c), analysis of a considerably more number of specimens and larger number of rarer constituents will be needed. The analysis of minerals submitted by the public will also have to be carried on. Items (e) and (f) under Section 11 above falls naturally within the scope of investigations of the Chemical laboratory.

Our ultrabasic rocks have not been tested as the possible repositories of platinum. The assaying of a number of bulk samples from different exposures is likely to take up some appreciable time of one of the Chemists.

IV. Drawing Branch:-

- (1) Preparations of maps and sections of I and II.
 - (2) Preparations of geological maps, sections and sketches of parts of geological interest in the ~~xxxx~~ neighbourhood of much frequented Road and Railway sections and places of general tourist interest. Such as Krishnarajasagara area - Sivasamudram - The Gerosoppa Etc.
 - (3) Developing and printing of photographic plates illustrative of geological structures and photomicrographic plates of rock sections.
 - (4) Preparation of half tone blocks of the above.
- (2, 3 and 4 are new items of work which have not been as yet undertaken by the Department.

V. Educational and Propagandic:

(1) Interest may be taken by some of the officers while on tour, to deliver occasionally lectures in the District High Schools, on the economic mineral resources of the District, on points of special geological interest in the neighbourhood &c.

(2) Organisation of museums in the District Head Quarters showing the minerals and rocks of the district.

(3) By sale, ~~at~~ for a nominal price of descriptive illustrated pamphlets as noted in IV.2.

VI. Museum:- This needs through overhauling. The type specimens have to be critically examined and re-classified in consonance with modern petrographic nomenclature. Descriptive guide to the museum collections has to be prepared and published. Preparations of a card index system of Registration and Reference to the existing collections is badly needed. Museum research ^{is} ~~which~~ involving a special study of ~~an~~ effective ways of exhibiting specimens to bring out their essential characteristics, construction of models and diagrams ~~etc.~~ of special feature of local geological interest, construction of models illustrative of the mode of formation of important economic minerals etc has to be undertaken

VIII. Library:- The library should be in charge of a trained librarian. Pertinent important material from the scientific journals and periodicals on the various aspect of geological researches should be extracted and a card index system of registration of such needs undertaking. As far as possible a synopsis of important items of research as published in French and German literature should be made available by translation and extraction.

VIII.	Consultative	0 0 0 0	As at present with some modifications.
IX.	Administrative		

The outlines of work as suggested above are ambitious enough for our present needs.

23

Part of the work under (a) and (b) in Section 1/ could be carried out ~~by~~ by the Geology Research students of the University if they work under the guidance of the Departmental officers and also by some of the Petrology staff of the Geology Department of the University. In the latter ^{case} it might become necessary to grant some lumpsum honoraria to induce qualified men to take up such investigations during the college vacations. The results of the researches will of course, if of sufficient merit, have to find a place in the publications of the Department.

All the rest of the items of work have to be carried on only by the regular staff of the Department, and if these different items are constituted into suitable separate charges, it is seen that the following is the minimum staff required to carry on fully the programme of work as noted.

1	Director	Administrative Charge. General Supervision of all sections. Part of 1, including publications.
1		General Assistance in above. Inspection of mining blocks. Publications and Library
1		Part of 1. specially 1 (c) and petrographic researches and V.
0	1	11 (a) & (b) Hydrographic & Soil Survey.
0	1	11 (c) and V. Building and Ornamental stones
0	1	11 (d) and V. Prospecting.
0	1	11 (g) and V. Mining and Marketing.
0	1	VI - Museum and Exhibitions.
0	8	
=====		
	Chemist	11 (e) and 111 (a) Ore concentration and analysis
	Chemist.	11 (f) and 111 (a) Investigations of minerals ~~and~~ for industrial purposes and analysis.

This scheme aims at placing each of the assistants in charge of a separate section or sections to enable him to concentrate his undivided attention to the development of his

his particular branch of work to the best possible standard.

Each officer placed under a separate charge requires the assistance of some working hands of the rank of upper subordinates.

To start with the following hands will be needed.

- 1 For Soil survey section;
- 2 For building and ornamental stone section;
- 2 For prospecting;
- 1 For Museum;
- 1 For Library;
- 1 For Chemical Laboratory,
- 7

The Department at present has but the following staff of executives-

- 1 Director. Administrative charge &c.
- 2 Assistant Geologist Chrome mines.
- 2 Assistant Geologist ... Geological Survey.
- 2 Sub-Assistant Geologists 2 { Prospecting for kaolin
- 3 { Field Assistant. 1 { Felspar, graphite clay &c.
- 6

The above scheme as outlined necessitates two more officers on the controlling staff and 7 hands of the rank of upper subordinates. It is probable under present financial stringency the Government may be unwilling to give us all that we need. But still, considering these suggestions as broadly outlined, if they agree that there is a need for re-organisation and if they are prepared to favourably consider any suitable proposals sent, detailed scheme with all the requisite particulars regarding the needed equipment for the various branches, allocation of charges, ^{among the existing staff} recruitment for vacant posts, ^{if sanctioned} gradations, scale total estimated cost etc. will be submitted in due course.

B. Ramana Rao

96-1-24

S. O. No 21700

7.9.36

Bangalore

Dear sir

The first member of Council would like
to dis-cuss with you and Mr B. Rama Rao
on the 11th instant the note on the future
work of the Geological Department
forwarded with your letter no 4323
of 5-4-36

Yours truly

Signed D. C. S

Address

A. M. Sen Esq. M. Sc. F. G. S

Director of Geology
Bangalore

m. S. D.

Mr SD

39
GOVERNMENT OF MYSORE.

GEN. & REV. SECRETARY
1 OCT. 1934

Telegraphic Address:—"GEOL."

DEVELOPMENT BRANCH
MYSORE GEOLOGICAL DEPARTMENT,

No. G. 437
N

Bangalore 29th September 1934.

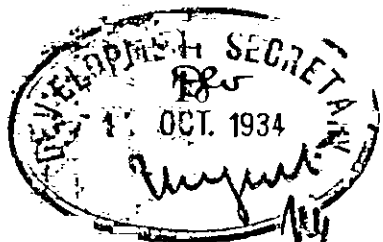
FROM

Geol 36-34-2

A. M. SEN, Esq., M.S.c., F.G.S., etc.,

Director of Geology in Mysore,

Bangalore.



M. Venkatanaranappa, Esq., B.A.,

Secretary to the Government of

His Highness the Maharaja of Mysore,

Development Department, B a n g a l o r e.

SIR,

I have the honour to state that on the 5th September 1934, I submitted in an unofficial note to the First Member of Council a scheme drawn up by Mr. B. Rama Rao, Assistant Geologist, which broadly outlined the contemplated future programme of work of this department. The main lines of activities have been classified in this scheme broadly into two divisions:- (1) Scientific and (2) Economic investigations. It may be stated that all the items suggested therein are equally important if we have to keep abreast of modern developments in applied geology and continue to maintain the prestige of this department as an efficient organisation for geological researches in all their various aspects.

During the past few years, the department has been directed to concentrate its attention on investigations of economic aspects. This is certainly the most desirable aspiration, but unfortunately it cannot be satisfactorily carried out for want of proper facilities. Most of the time of the limited staff of this department is being taken away to comply with the requisitions from other departments; and the constant shifting of the few officers from one work to another to meet such urgent demands disturbs the continuity of the work of these officers and in consequence any investigations taken on hand cannot be carried out systematically to their proper conclusions. This state of affairs will have

Ans

have to continue till the department is suitably re-organized and definite charges are allocated to individual officers. To give effect to the full programme of work as outlined, the department needs strengthening by at least two more officers, on the Gazetted cadre and seven executive assistants of the ranks of upper subordinates. In addition to the necessary equipments and appliances to conduct the various investigations as suggested, a sum of at least Rs.20,000/- will also be needed.

In view of the present unfavourable strained conditions of the State's finances I do not feel justified to approach the Government for the immediate sanction of all the suggested schemes, but as a start I beg to request the Government to sanction the addition of two more officers to the present strength, to give effect to the following important economic investigations which require immediate attention:-

(1) Development of ornamental building stone Industry:- There have been occasional demands from outside for green quartzite, which is now being worked under prospecting license. Besides this, the State possesses various types of handsome building and ornamental stones which take a fine polish. These have not yet evinced much public interest locally, perhaps, for want of sufficient advertisement, higher cost and other factors. Of late with the co-operation of the Trade Commissioner for Mysore in London, the possibility of finding abroad a suitable market for some of them is being tried. Intensive investigations of the various outcrops of the several types are needed to determine the quantity of each type available, the maximum dimensions of the slabs which could be quarried, the most economic methods of quarrying, the cost of dressing and polishing the slabs to the required degree of fineness and other particulars. These investigations are absolutely needed as preliminary steps for developing this ~~ind~~ industry. As there are more than 40 types of such stones scattered in different areas, an undivided attention of an officer for a

a period of at least 3 years will be needed for this work.

(2) Stoneware and Ceramic Industries:- The State has been importing at present some 4000-4500 maunds of stoneware articles from outside. The demands for these and sanitary wares are likely to increase in the near future. We had already set on foot investigations on some clay deposits regarding their suitability for such material, but due to pressure of other works, this work had to be suspended. Further investigations for the location of kaolin and refractory clays for supply to the Government Porcelain Factory have to be taken up as early as possible during this year. To carry on this work the services of one officer will be needed for at least another 3 years.

To cope with these additional works, as I have stated above two more hands will be needed. As it is highly desirable to start these investigations immediately, orders of Government are solicited to recruit two qualified graduates in Geology. They may be designated Field Assistants", and be placed on a temporary basis for a period of 2 years in the first instance. The pay may be fixed at Rs.75/- per month for each during this period.

The allocation of work to the new recruits will be decided later on if the appointments are sanctioned. If the intended investigations lead to any profitable results, the question of permanently increasing the staff, and confirming the new recruits may be considered after 2 years.

To carry on the proposed investigations, a sum of another Rs.3,000/- in addition to the present sanctioned grant of Rs.2,000/- for mineral survey will have to be provided for to meet the requisite expenses during the year current year.

Early orders of Government are solicited.

I have the honour to be,

Sir,

Your most obedient servant,



D i r e c t o r ,

Mysore Geological Department.

Bs.29/9

Me
29/9

SUBJECT

Section *feol*
File No. *36-34*
Serial No. *3*

Diary No. of letter replied to

No. *D 2102*

To *Mr. J. Feol*
We are the representative, Bangalore

General and Revenue Secretariat
()
the 193

Date of issue *9/11/34*

Signed by *Mr. D. C. V.*

Sir,
I am directed to inform
you in correspondence ending
with your letter no. G. 1437 dated
29-1-34 requesting orders for
enrolling two additional hands
as field assistants on Rs 75/- a
month for a period of 2 years
and for the cost of an additional
sum of Rs 3000/- for minor
survey in the current year's
budget. I am directed to
reply to you to kindly forward

List of enclosures

Copied by *12/11/34*

Examined by.....

for an allotment
the details of the ~~expenditure~~ expenditure
required for municipal purposes
of Rs 3000/- (including the ~~subsidy~~ subsidy
expenditure of Rs 3000/- ~~represented~~ ^{and amount for}):-

Thank, etc-

Dec
3/11/24
For Secy

3)

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Bangalore, Dated, 24th November 1934

No.

23102

From

Evul 86-24-3

The Secretary to the Government of His Highness the Maharaja of Mysore,
Development Department.

To

The Director of Geology in Mysore,
Bangalore.

Sir,

With reference to correspondence ending with your letter No. G. 437, dated 29th September 1934, requesting orders for entertaining two additional hands as -- Field Assistants on Rs. 75/- a month for a period of 2 years and for the grant of an additional sum of Rs. 3,000 therefor under mineral survey in the current year's -- budget, I am directed to request you to kindly furnish the details for an allotment of Rs. 5,000 required for Mineral Survey.

I have the honor to be,
Sir,
Your most obedient servant,

Dr. J. S. S. S.

Dr. J. S. S. S.
For Secretary to Government,
Development Department.

GOVERNMENT OF MYSORE.

-37

Telegraphic Address:—"GEOL"

MYSORE GEOLOGICAL DEPARTMENT

14th November 4.

No. 9042-1

Bangalore.....193

FROM

A. M. SEN, ESQ., M.S.C., F.G.S., ETC.,

Director of Geology in Mysore,

Bangalore.

2377
SECRET
DEVELOPMENT BRANCHTo
15 NOV 1

M. Venkatanarayanappa, Esq., B.A.,

Secretary to the Government of

His Highness the Maharaja of Mysore,

SIR,

Development Department, B a n g a l o r e.

With reference to your letter No.D.3102/Geol.36-34-3 dated 9th November 1934 asking for details for a sum of Rs.5000/- required for Mineral Survey Work under this departmental budget for the current year, I have the honour to state as follows:-

With a view to ascertain the possibility of getting sufficient quantities of ornamental building stones of the required sizes suitable for memorials etc. it is proposed to open out a few different types which are likely to find a ready sale. Our choice is limited on account of some of the types, approved by the Trade Commissioner for Mysore in London, being situated in private lands. To start with, two of the marginally noted

- | | | |
|--|---|-------------------------------|
| 1) Fine pale pink porphyry, near the sixth mile on the Mandya-Bannur Road. | } These are in private lands and require owners' consent. | five outcrops |
| 2) Medium coarse pink porphyry at Kengalkoppal near Seringapatam. | | will be taken |
| 3) Dolomitic marble (limestone) to the west of Chattanahalli. | | up for immediate |
| 4) Wala trap | | investigation |
| 5) Magadi pink granite. | | and if conditions permit, the |
| | | remaining ones |

sometime later.

I. To open out and carry on the investigation on two of the areas noted above, the estimate of expenditure ^{for the next six months} will be as follows:-

	Rs.
(1) Pay of two Field Assistants for 6 months from December 1934 at Rs.75/- each per mensem	900- 0- 0
(2) T.A. for the Field Assistants for five months at ~~Rs.30~~ Rs.30/- each per month.	300- 0- 0
(3) T.A. for the menial staff (camp establishment) for the period.	150- 0- 0
(4) Wages for 2 trained mason blasters at Rs.1/8/- each per day for 4 months.	360- 0- 0
(5) Blasting materials, tools etc.	120- 0- 0
(6) Labour charges for other items of work incidental to quarrying.	300- 0- 0
(7) Charges for transport of materials to Bangalore for experimental purposes	150- 0- 0
(8) Dressing and polishing of some slabs of ornamental stones and preparation of fancy stone-wares.	750- 0- 0
	3,030- 0- 0

II. The balance will be needed for the following:-

(a) For mining of graphite required for the Mysore Iron Works and kaolin, quartz and felspar for the Porcelain Factory.	1,000- 0- 0
(b) Wages for labour to be employed in connection with prospecting for clay for ceramic purposes.	300- 0- 0
(c) Exploration and Prospecting of new areas for kaolin and other economic minerals.	650- 0- 0
	Total:- 4,980- 0- 0
or Rs.5,000/- in round figures.	

The details as given above are based on an approximate estimate which may probably vary during the course of actual working. Under the circumstances I beg to request that a lump sum allotment of Rs.5,000/- may be kindly granted by Government for mineral survey for the current year.

I have the honour to be,
Sir,
Your most obedient servant,

A. M. Sen

Director,
Mysore Geological Department.

Bs.14/xi

By " "

Appendix F G—1]

SUBJECT

Section *Genl*File No. *36-34*Serial No. *5*

Diary No. of letter replied to

No. *03750*To *Mr. Wm. S. Ford*

General and Revenue Secretariat

()
the 193 .

Director of Genl

Date of issue *6/12/34*

Dear Sir

Signed by *R. D. C.*

I am desired to
request the favor of
being furnished with
figures showing the
actual realizations
~~practically~~ under Revenue
from Chrome mines

List of enclosures

from Chrome mines

During 1933-34

Copied by

And the probable

revenue under the same

Examined by

head during the current year

1934-35 base on the actual

realizations for the past few months

and the anticipation of the sale rate &

Dear Sir

I am desired to
request you to kindly furnish
information
~~the budget & actual (or probable)~~
~~realizations~~ for 1933-34 &
1934-35 - under Revenue from
chrome mines this may be
kindly treated as urgent-

Y.S

the quarterly expected to be sold during the rest of the year
700 or more
Dec 11/2/34

GENERAL AND REVENUE SECRETARIAT,

D. O. No.

Dated, Bangalore 5th December 1934.

D 2752
File 36-81

60

11

Dear Sir,

I am desired to request the favour of being furnished with figures showing the actual realizations under revenue from Chrome Mines during 1933-34 and the probable revenue under the same head during the current year 1934-35 based on the actual realizations for the past five months and the anticipation of the sale rate and the quantity expected to be sold during the rest of the year.

Yours sincerely,

leg

.am-

A.M. Sen, Esq., M.Sc., F.G.S., etc.,
Director of Geology in Mysore, Bangalore.

no 9-792-

Geol. 36-34-6

112

A.M. Sen, Esq., M.Sc., F.G.S., &c
Director of Geology.

Mysore Geological Department.

Bangalore, 10th December, 1934.

112

112

2849

11 DEC. 1934

DEVELOPMENT BRANCH

Dear Sir,

With reference to your D.O. letter No.D.3750/Geol.36-34-5 dated 5/6th December 1934 requesting to be furnished with figures showing the actual realisations under Revenue from Chrome Mines during 1933-34 and the probable revenue under the same head during the current year based on realisations and anticipations, I note hereunder the required information:-

	Rs.	As.	p.
1. Actual net realisations or profits from Chrome Mines under Revenue head during 1933-34. (This figure is subject to correction pending completion of the balance sheet to be approved by the Comptroller).	65,187-	13-	9
2. Probable net Revenue under the above head during 1934-35:-			
(a) Actual realisations to end of November '34.	67,550-	0-	0
(b) By anticipation of sale of 4000 tons at Rs.17/- per ton.	68,000-	0-	0
(c) By anticipation of sale of 1000 tons at Rs.19/2/- from the middle of May to June 1935.	19,125-	0-	0
(d) By anticipation of sale of 200 tons of Talur ore at Rs.12/8/- per ton.	2,500-	0-	0
Total:	Rs.1,57,175-	0-	0
Deduct probable expenditure on the Byrapur and Talur Mines during 1934-35:-	31,000-	0-	0
Approximate Net revenue:-	Rs.1,26,175-	0-	0

Yours sincerely,

A. Sen

M.Venkatanaranappa, Esq., B.A.,
Secretary to the Government of
His Highness the Maharaja of Mysore,
Development Department, Bangalore.

Immediate

43
2nd February 1935.

A 4903

Dear Mr. Sen,

The First Member of Council will be glad to discuss with you at 4 P.M. on the 6th instant, the suggestions you have submitted in connection with the future scope of work of the Geological Department.

Yours sincerely,

Mr.

A.M.Sen, Esq., M. Sc., F.G.S.,
Director of Geology in Mysore,
Bangalore.

D. O. No.

GENERAL AND REVENUE SECRETARIAT,

Dated, Bangalore 21st February 1935.

Dear Mr. Sen,

The First Member of Council will be glad
to discuss with you ^{at 4 PM} ~~and me~~ on the 6th instant
~~at 2-30 P.M.~~, the suggestions you have submitted
in connection with the future scope of work of
the Geological Department.

Yours sincerely,



A.M. Sen, Bsq., M.Sc., F.G.S.,
Director of Geology in Mysore.

sm

SUBJECT

Diary No. of letter replied to

General and Revenue Secretariat.

()
the 193

Date of issue

Signed by

List of enclosures

Copied by

Examined by

Section. *feol*

File No. 36-34

Serial No. 7

No.

To

Me Dir of feol

Sir,

Letter ref to correspondence

ending with your letter no 9042-1

dated 14/11/34 ^{regarding} ~~concerning~~ the ~~matter~~

& the future scope of work ⁱⁿ the

feol dept. I am directed to

request that specific proposals ~~are~~

^{in the matter} ~~submitted~~ on the subject may be

sent ^{for the} ~~the~~ ^{to} ~~in consideration~~ for the

consideration of Govt. very early

I have etc

16/3/35
J. W. S.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA

General and Revenue Secretariat

Dated, Bangalore, 18th March 1935

No.

From

The Secretary to the Government of His Highness the Maharaja of Mysore,
Development Department.

To

The Director of ~~Industries and Commerce~~ ^{Geology} in Mysore,
Bangalore.

Sir,

With reference to correspondence ending with your letter No.9042-1 dated 14th November 1934 regarding the future scope of work in the Geological Department, I am directed to request that specific proposals in the matter may be sent ^{up} for the consideration of Government very early.

I have the honor to be,
Sir,
Your most obedient servant,

Ort
Secy
Secretary to Government,
Development Department.

B.K.M.2

27335
27335
36-34-8
GOVERNMENT OF MYSORE.

Telegraphic Address:—"GEOL."

MYSORE GEOLOGICAL DEPARTMENT,

No. 9042-4

Bangalore...26th.....March 1935.

FROM

A. M. SEN, ESQ., M.Sc., F.G.S., ETC.,
Director of Geology in Mysore,
Bangalore.

45-75
GEN. & REV. SECRETARY
27 MAR 1935
DEVELOPMENT BRANCH.

TO

M. Venkatanaranappa, Esq., B.A.,
Secretary to the Government of
His Highness the Maharaja of Mysore,
Development Department,
Bangalore.

SIR,

With reference to your letter No. D.6124/Geol.36-34-7 dated 18th March 1935, requesting that specific proposals in the matter of the Mineral Survey work of the Department may be sent for the consideration of Government, I have the honour to submit the following specific proposals accordingly.

2. Details regarding the following two lines of activities proposed to be undertaken by the Department immediately have already been furnished in our letter No. 9042-1 of the 4th November 1934.

- I. Ornamental Building Stone Works,
and
- II. Ceramic and Stoneware Works.

3. Under No. I the following two types of rocks would be selected for our primary investigations

(a) The slaty schists occurring between Aimangala and Hiriyur in the Chitaldrug District, if suitable for ordinary paving slabs

and

(b) Dolomitic limestones (or marble) occurring to the west of Chattanahalli in the Mysore Taluk, if suitable for ornamental flooring purposes.

4. This investigation will take about 8 to 12 months; and if the results obtained are sufficiently encouraging as to the profitable sale of the slabs in the market, then the work might be extended in the light of the experience gained to the other selected types of rocks noted in our letter quoted above.

5. II. Ceramic and Stoneware Works.

Owing to the increased output of the Government Porcelain Factory due to the addition of a second mill, it has become necessary to locate deposits of kaolin and refractory clays and other necessary raw materials within easy reach of the factory if available. For this purpose systematic investigation have to be made not only of the quality but also of the quantity of these materials. The deposits of kaolin and refractory clay near Hoskote, Krishnarajapuram and Dodbele have to be examined as early as possible.

t.t.o.

Investigations have to be made for suitable clay deposits for the manufacture of stoneware articles.

7. For the above work proposals have been submitted for the appointment of two Field Assistants on Rs. 75/- each per month. If they are appointed, they will be attached to the senior officers of the department for a month or so to receive training in prospecting operations, as they may not have much experience in such work. Later on one of them will be engaged in the work for Ornamental Building stones and the other in the prospecting work for Ceramic and stoneware materials, under the guidance and supervision of the Senior officers.

8. It is also considered necessary that an officer of the department should be sent early to investigate the clay and limestone deposits suitable for the manufacture of Portland Cement available in the neighbourhood of Bhadravati.

9. As these operations can be carried out better during the dry season when most of the field work is done, I beg to request that Government would favourably consider these proposals and sanction the two appointments as already recommended as early as possible.

I have the honour to be,
Sir,
Your most obedient servant,

A. K. Sen

Director,
Mysore Geological Department.

Bs. 26/3

26/3

SUBJECT _____

Diary No. of letter replied to _____

General and Revenue Secretariat.

()
the 193

Date of issue

Signed by

List of enclosures _____

Copied by

Examined by

Section.

File No.

Serial No.

No.

To

for

Letter ref to Correspondence

ending with your letter no 9042-4
submitting principles proposed
d 26.12.35 for the matter of ap

annual survey work of the year,

I am directed to state that

a sum of Rs 2800/- has been
provided
allocated under Annual Survey

in the budget for 1935-36 and

to request you to kindly furnish

the details for the above allocation

required for annual survey.

Thank you

25/5/35

25/5/35

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat 28

No. 97687 Dated, Bangalore, 27 th May 1935

From

Genl 36-24-9

The Secretary to the Government of His Highness the Maharaja of Mysore,
Development Department.

To

The Director of Geology in Mysore,
Bangalore.

Sir,

With reference to correspondence ending with your letter No.9042-4 dated 26th March 1935 submitting specific proposals in the matter of the mineral survey work of the Department, I am directed to state that a sum of Rs.2,880/- has been provided under Mineral Survey in the budget for 1935-36 and to request you to kindly furnish the details for the above allotment required for mineral survey.

I have the honour to be,
Sir,
Your most obedient servant,

W. S. S.

For Secretary to Government,
Development Department.

600
2/16/35

36-34-10

GOVERNMENT OF MYSORE.

Telegraphic Address. — "GEOL."

MYSORE GEOLOGICAL DEPARTMENT,

No. 9042-6

Bangalore. 1st June. 1935.

FROM

A. M. SEN, Esq., M.Sc., F.G.S., Etc.,

Director of Geology in Mysore,

TO

M. Venkatanaranappa, Esq., B.A.,
Secretary to the Government of
His Highness the Maharaja of Mysore,
Development Department,
Bangalore.

SIR,

With reference to your letter No.D.7687/Geol.36-34-9 dated 28th May 1935 requesting to be furnished with details for a sum of Rs.2,880/- said to have been provided in the departmental budget for the year 1935-36 under Mineral Survey, I have the honour to state that a sum of Rs.7,000/- was required to be provided under the above head for the next year as per this office letter No.9066-11 dated 10th April 1935 to you forwarding estimates of expenditure under Travelling Allowance, Contingencies etc. for 1935-36.

S. In addition to the usual provision of Rs.2,000/- required for ordinary work under Mineral Survey and Prospecting, an additional allotment of Rs.5,000/- was asked for in connection with the special programme of work submitted to Government with correspondence ending with this office letter No.9042-4 dated 26th March 1935 to be carried out under Mineral Survey during 1935-36.

A The estimate of expenditure for a period of six months for the special work under Mineral Survey as submitted to Government in this office letter No.9042-1 dated 14th November 1934 was for Rs.5000/- including Rs.1000/- for expenditure in connection with the mining of graphite, felspar etc. The pay alone of the two additional temporary Field Assistants at Rs.75/- per mensem comes to Rs.1,800/- for the year. To this, if their T.A. of Rs.600/- and that of their menial establishment, viz., Rs.300/- are added, the figure will come to Rs.2,700/- How only a sum of Rs.2,880 is stated to have been provided under Mineral Survey for 1935-36 is not known.

I request to be informed if the above sum of Rs.2,880/- is in addition to the pay and T.A. of the two additional temporary Field Assistants separately provided for and also whether it is in addition to the usual Rs.2,000/- ordinarily provided under Mineral Survey. On your kindly furnishing this information, the required details called for in your letter referred to above will be submitted to Government.

I have the honour to be,
Sir,
Your most obedient servant,

A. M. Sen

Director,
Mysore Geological Department.

Geol 36-34-11
1
GOVERNMENT OF MYSORE.

Telegraphic Address:—"GEOL."

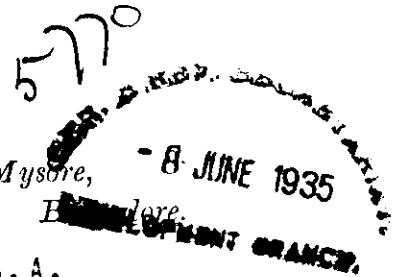
MYSORE GEOLOGICAL DEPARTMENT,

No. 9042-7

7th June 1935
Bangalore.....1935

FROM

A. M. SEN, Esq., M.Sc., F.G.S., Etc.,
Director of Geology in Mysore,



TO

M. Venkatanaranappa, Esq., B.A.
Secretary to the Government of
His Highness the Maharaja of Mysore,
Development Department,
Bangalore.

SIR,

In continuation of this office letter No.9042-6 dated 1st June 1935 requesting to be informed if the provision of Rs.2,880/- under Mineral Survey and Prospecting works is in addition to the usual provision of Rs.2,000/- under that head, I have the honour to state that from the provisional budget copy for 1935-36 received in this office, it is seen that a sum of Rs.5,000/- has been provided under Mineral Survey for 1935-36. Setting apart Rs.2,000/- for the usual work under Mineral Survey, a balance of Rs.3,000/- will be left for which the details are as follows:-

	<u>Amount in Rs.</u>
1. Pay of two Field Assistants on Rs.75/- each per month for the year.	1,800/-
2. Travelling Allowance.....do.....	480/-
3. T. A. of servants.	150/-
4. Wages for Blasters.	270/-
5. Blasting material, tools &c.	100/-
6. Labour charges.	200/-
Total: Rs.	<u>3,000/-</u>

A It may be stated for the information of Government that the amounts noted above from item 4 onwards are very meagre and will hardly be sufficient to cope with the special work to be undertaken. It will be seen from the details furnished that no provision is made for any incidental charges. On account of the insufficient allotment made, it will be possible only to win and transport samples of building stones without getting them polished. Polishing charges alone come to Rs.750/- as already pointed out in my letter No.9042-1 dated 14th November 1934 and since this expenditure cannot be met from the allotment of Rs.3,000/- made, this item of work has to be given up.

S I beg to state that in order to enable this Department to carry out satisfactorily the special programme of work under Mineral Survey, as detailed in my letter No.9042-4 dated 26th March 1935, it is necessary that an additional allotment of at least Rs.2,000/- should be made, so that the total grant

P.T.O.

under Mineral Survey may be raised to Rs.7,000/- ^{as} already asked for in the budget estimates pertaining to this department. I request that the above provision may kindly be made; otherwise it will not be possible to carry out the full programme in detail.

ds

I have the honour to be,

Sir,

Your most obedient servant,



D i r e c t o r,

Mysore Geological Department



c

Bs.7/6

SUBJECT

Diary No. of letter replied to

General and Revenue Secretariat

()
the 193 .

Date of issue 2/7/1935

Signed by th Des.

May this be—

- (i) printed ?
- (ii) treated as a standing order ?
- (iii) published in the Gazette,
English Part ?
- (iv) translated ?
- (v) placed at the disposal of the press ?
- (vi) published in the Gazette
Kannada Part ?

Sought sanction to the appointment of two Field Assistants on a pay of Rs. 75 p.m. for carrying on investigation in respect of the following minerals:—

- (1) Amansentol building stone — between Amangula & Hingur in the Chitold, H. & Director's West of Chittarhally.
~~It is a volcanic lava stone~~
is a marble in the West of Chittarhally in the Hingur H.

Geol

Section *26-10*

File No. *34*

Serial No. *12*

Proceedings of the Government of
His Highness the Maharaja of Mysore.

Read— Correspondence ending
with letter no 9042-7 dated
7/6/35 from the Dir. of Geology
submitting ~~proposals~~ proposals
in the matter of the number
survey work in the Geol Dept.

Order thereon.—No.

dated

2/7/35

The Dir. of Geology has
a detailed
submitted proposals for
undertaking the survey work
on the following minerals
in the area
between Amangula &
Hingur in the Chitold,
H. & Director's West of
Chittarhally.
It is a volcanic lava stone
is a marble in the West of Chittarhally
in the Hingur H.

4 (2) Ceramic & stone ware -

~~The deposit of Kavalin & Refractory~~
near Hoskote, Krishnarejipetam
Doodbele

~~He for the above work, the
appointment of two field Asst. is
said to be necessary.~~

To be pleased to sanction the appointment of two

direct that survey work be carried

out in respect of two claims referred

to above and to sanction the

appointment through the C.R.B.,

of two temporary field Asst. at

Rs 75/- P.M. each for a period of 12 months

and the expenditure should

be limited as far as possible

to the grant made therefor

in the budget of the dept. for

1935-36

22/11/35

Dr. Sen
Sd/-

To: The Secy of Govt
The Comptroller through F.O.
The Secy, C.R.B.

List of Enclosure

Copied by

Examined by

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS
THE MAHARAJA OF MYSORE.

Read:—

Correspondence ending with letter No. 9042-7 dated 7th June 1935 from the Director of Geology, submitting proposals in the matter of the Mineral Survey work in the Geological Department

Order No.

D 8-10/Eol 36-74-12
Dated. Bangalore, 28th June 1935.

The Director of Geology has sought sanction to the appointment of two Field Assistants on a pay of Rs. 75 per mensem for carrying on investigation in respect of the following minerals:—

(1) Ornamental building stone - In the area between Aimangala and Hirivur in the Chitaldrug District and to the west of Chathanhalli in the Mysore District and

(2) ceramic and stoneware near Hoskote, Krishnarajapuram and Doddbele,

Government are pleased to sanction the appointment of two temporary Field Assistants on Rs. 75 each per mensem for a period of 12 months in connection with the above investigation. The appointments should be made in accordance with the Rules of the Central Recruitment Board, and the expenditure should be limited as far as possible to the grant made therefor in the budget of the Department for 1935-36.

Subbarayappa
Secretary to Government,
Development Department.

To

The Director of Geology in Mysore,
The Comptroller to Government through Finl. Departt.
The Secretary, Central Recruitment Board.

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS
THE MAHARAJA OF MYSORE.

Read:—

Correspondence ending with letter No. 9042-7 dated 7th June 1935 from the Director of Geology, submitting proposals in the matter of the mineral survey work in the Geological Department.

Order No. *19 E-10/Genl 76-24-12*
dated Bangalore. *20/6/35*
20th June 1935

The Director of Geology has sought sanction to the appointment of two Field Assistants on a pay of Rs. 75 per mensem for carrying on investigation in respect of the following minerals:—

(1) Ornamental building stone - In the area between Aimangala and Hiriyur in the Chitaldrug District and to the west of Chathanballi in the Mysore District and

(2) Ceramic and stoneware near Hoskote, Krishnarajapuram and Doddabala.

Government are pleased to sanction the appointment of two temporary Field Assistants on Rs. 75 each per mensem for a period of 12 months in connection with the above investigation. The appointments should be made in accordance with the Rules of the Central Recruitment Board, and the expenditure should be limited as far as possible to the grant made therefor in the budget of the Department for 1935-36.

Secretary to Government,
Development Department.

To

The Director of Geology in Mysore,
The Comptroller to Government through Finl. Departt.,
The Secretary, Central Recruitment Board.